

Pipeline Clamp

Structural & Leak Preventing



2025

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|--------------|---|--------------|-----------------|
| Project No.: | - | Document No. | RAD-0029-R1 |
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Pipeline Clamp

Pipeline Clamps are split mechanical fittings designed for the rapid repair of damaged or leaking pipelines. These fittings are manufactured in both structural and non-structural configurations. The non-structural type is intended for pipelines with minor defects such as pinhole leaks, localized wall thinning, or shallow dents. The structural type is engineered to restore the mechanical integrity of pipelines experiencing more severe damage, including cracked girth welds, kinks, or punctures. This version incorporates a retained, self-energizing gripping mechanism at both ends of the clamp, along with a high-performance elastomeric sealing system that provides reliable compression sealing in both circumferential and longitudinal directions.

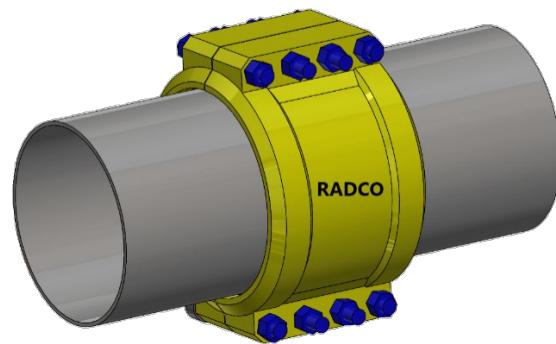
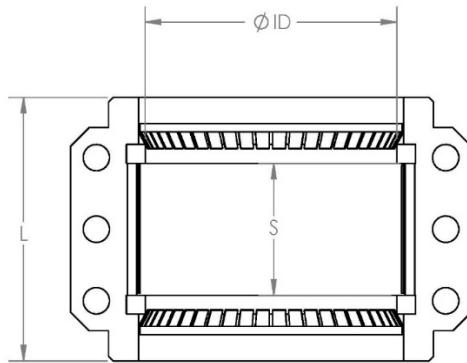
Pipeline Clamps

- Leak Repair
- Crack like defects,
- Structural Integrity
- Tolerate high bending moment
- Tolerate high axial force



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GENERAL DIMENSION



| Pipeline Nominal Size | Clamp Inside Diameter (ID) | Seal Active STANDARD Length (S) | Clamp Overall STANDARD Length (L) |
|-----------------------|----------------------------|---------------------------------|-----------------------------------|
| 3 | 4 | 5 1/4 | 8 1/2 |
| 4 | 5 | 5 1/4 | 8 1/2 |
| 6 | 7 1/8 | 5 1/4 | 8 1/2 |
| 8 | 9 1/8 | 5 1/4 | 9 |
| 10 | 11 1/4 | 5 1/2 | 10 |
| 12 | 13 1/4 | 5 1/2 | 10 1/2 |
| 14 | 14 1/2 | 8 | 10 1/2 |
| 16 | 16 1/2 | 8 | 14 |
| 18 | 18 1/2 | 8 | 14 |
| 20 | 20 1/2 | 8 | 14 |
| 22 | 22 1/2 | 8 | 14 |
| 24 | 24 1/2 | 8 | 14 |
| 26 | 26 1/2 | 8 | 14 |
| 28 | 28 1/2 | 8 | 14 |
| 30 | 30 1/2 | 8 | 14 |
| 32 | 32 1/2 | 8 | 14 |
| 34 | 34 1/2 | 8 | 14 |
| 36 | 36 1/2 | 8 | 14 1/8 |
| 38 | 38 1/2 | 8 | 14 1/4 |
| 40 | 40 1/2 | 8 | 14 1/4 |
| 42 | 42 1/2 | 8 | 14 7/8 |
| 48 | 48 1/2 | 8 | 16 |
| 56 | 56 1/2 | 8 | 17 |

The clamp inside diameter (ID) and the overall standard clamp length (L) are subject to modification based on the reported damage mechanism and/or upon the client's requirements. Accordingly, RADCO is capable of performing detailed engineering analyses to accurately define, verify, and optimize the clamp dimensional specifications

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Split Sleeve Clamp Specification

| Items | Description |
|-------------------------|---|
| Service | Crude Oil / Gas/ Condensate ... |
| Application | Subsea / Onshore/ Underground |
| Design Code | ASME B31.4, ASME B31.8 |
| Nominal pipe size (NPS) | 4 inch~56 inch |
| Pipeline grade | API 5L |
| Pipeline wall thickness | TBD |
| Engineering design | ASME PCC2, ASME SECVIII, DNV GL RP F113 |
| Sealing Length | Standard and non standard |
| ANSI Pressure Rating | #150 ~#2500 |
| Design Temperature | TBD |
| Main Body Material | Acc to API SPECIFICATION 6H A694, A105, A516 |
| Inboard seal | Compatible with Fluid (Buna N (NBR) ...) |
| Protection sheet | SS 304L |
| Coating | Epoxy / Col Tar Epoxy/ Mastic Epoxy/ Marine Epoxy |
| Stud bolts and Nuts | A 193 B7M , A 194 (2HM) |
| Lifting Hooks | Yes |
| Hanger & Hinges | Yes |
| Packing | Wooden Pallet |

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